
Ohio Department of Transportation

Central Office • 1980 West Broad Street • Columbus, OH 43223

Ted Strickland, Governor • Jolene M. Molitoris, Director

Please return quotes for this specification via fax at 614-887-4022, Attention: Purchasing, or via email to contracts.purchasing@dot.state.oh.us. All quotes must be received by 12:00 pm (noon), Monday, November 1st, 2010.

Test Lab, Fuser Instrument for the Preparation of Glass Beads for XRF Analysis - Quoting Information

General:

The purpose of this bid request is to obtain fusion equipment (fuser) that will be used to prepare glass beads of CCRL Round Robin cement samples. These samples will be analyzed by XRF methods and test results evaluated as part of a CCRL lab certification program. Fuser will be used to make glass beads of NIST cement standards that will be the basis of a cement calibration curve in the XRF. The fuser purchased must produce NIST cement standards that when run on the Ohio DOT's Bruker-AXS S4 XRF unit meet the reproducibility and accuracy requirements of ASTM C-114. The purchase of the fuser must include the items listed below:

The following link it to the Standard Terms and Conditions for quotes.

<https://extranet.dot.state.oh.us/groups/purchasing/Guidance/Standard%20Terms%20And%20Conditions.doc>



ODOT - Request for Quotation

Service Attachment 1

Page 1 of 3

SENT: 10/20/2010 **RETURN BY:** 11/1/2010 **AT:** 12:00 PM EST

FROM: Office of Materials Management
1600 West Broad Street

TO:

Columbus, Ohio 43223

CONTACT: Maria Kerestly

CONTACT:

PHONE: 614-275-1349

PHONE:

E-MAIL: maria.kerestly@dot.state.oh.us

OAKS ID:

FAX: 614-275-1354

FAX:

ODOT may split quotes among bidders unless **ALL ITEMS ONLY** is marked by ODOT

ALL ITEMS ONLY



Description of work to be done

Please provide an all inclusive quote that will meet all of the requirements and specifications listed below.

Fusion equipment (fuser) will be used to prepare glass beads of CCRL Round Robin cement samples. These sample will be analyzed by Xray Fluorescence Spectroscopic (XRF) methods and test results evaluated as part of a laboratory certification program. Fuser will be used to make glass beads of NIST cement standards that will be the basis of a cement calibration curve in the Ohio DOT's Bruker-AXS S4 XRF unit. The fuser purchased must produce fused NIST standard samples that when run on the Ohio DOT's XRF will meet the reproducibility and accuracy requirements of ASTM C-114.

- 1.) Fuser must be able to prepare glass beads that are 11/4 inches in diameter. Fuser must be fully automatic so that heating, agitation, pouring, and cooling steps are free of supervision.
- 2.) Fuser must have one (1) burner per sample, require no oxygen and no compressed air, and operate using propane. A fusion system without the use of oxygen tanks would increase safety.
- 3.) Fuser must have an automatic cooling system not needing compressed air nor cooling liquid systems.
- 4.) Fuser must be able to prepare at least one (1) or up to three (3) samples per fusion cycle.
- 5.) Provide installation and training by a qualified manufacturer's representative. Training must include preparation of fused bead samples of the Portland cement series of NIST standards on the fuser to be purchased by the Ohio DOT. These samples run on ODOT's XRF must comply with the requirements of ASTM C-114.
- 6.) Provide platinumware for one sample position, all accessories and materials necessary to prepare fused NIST cement standards. Ohio DOT will provide the NIST standards.
- 7.) Provide assistance with method development for Portland cement and pozzolons.
- 8.) Provide owner's manual.
- 9.) Electrical: Voltage - 100, 110, 115 or 230 VAC 50/60Hz, 240 VAC 50/60Hz
Wattage - 100W, 120W
- 10.) Programmable parameters to include: Gas flow, rotational speed, time for each step.
- 11.) Fuser must be a benchtop model that will fit within the working space of a standard hood with dimensions Length x Width x Height = 3 ft. x 2 ft. x 3 ft. with the control panel being on the side described as the length.
- 12.) Quote must be stable for 30 days. Quote must include shipping and handling.
- 13.) Payment will be made after delivery, installation, training, and proof of compliance to ASTM C-114.



ODOT - Request for Quotation

Parts/Materials/Equipment

SENT: 10/20/2010 **RETURN BY:** 11/1/2010 **AT:** 12:00 PM EST

FROM: Office of Materials Management
1600 West Broad Street

TO:

Columbus, Ohio 43223

CONTACT: Maria Kerestly

CONTACT:

PHONE: 614-275-1349

PHONE:

E-MAIL: maria.kerestly@dot.state.oh.us

OAKS ID:

Address Code:

FAX: 614-275-1354

FAX or E-Mail:

ODOT may split quotes among bidders unless **ALL ITEMS ONLY** is marked by ODOT

ALL ITEMS ONLY

Description of work to be done

Fusion equipment (fuser) will be used to prepare glass beads of CCRL Round Robin cement samples. These samples will be analyzed by XRF methods and test results evaluated as part of a CCRL lab certification program. Fuser will be used to make glass beads of NIST cement standards that will be the basis of a cement calibration curve in the XRF. The fuser purchased must produce NIST cement standards that when run on the Ohio DOT's Bruker-AXS S4 XRF unit meet the reproducibility and accuracy requirements of ASTM C-114. The purchase of the fuser must include the items listed below:

Qty	UM	Description	Price per Unit	Total
		Fuser must be able to prepare glass beads that are 11/2 inches in diameter. Fuser must be fully automatic so that heating, agitation, pouring and cooling steps operate free of supervision.		
		Fuser must have 1 burner per sample, require no oxygen and no compressed air, and work with propane.		
		Fuser must have an automatic cooling system not needing compressed air nor cooling liquid systems.		
		Fuser must be able to prepare at least one (1) or up to three (3) samples per fusion cycle.		
		Provide installation and training by a qualified manufacturer's representative. Training must include the preparation of fused bead samples of the Portland cement series of NIST standards on the fuser to be purchased by ODOT. These samples run on ODOT's XRF must		

Prices guaranteed until: [REDACTED] [REDACTED]

By returning a quote, vendors acknowledge that they accept ODOT Terms and Conditions as found at:

Total Materials
(Include All Pages)

<https://extranet.dot.state.oh.us/groups/purchasing/Guidance/Standard%20Terms%20And%20Conditions.doc>

IMPORTANT: Prices shall be considered F.O.B. destination unless otherwise specified.

Delivery by: 12/31/2010

Delivery to: Ohio Department of Transportation
1600 West Broad Street

**GRAND
TOTAL**

We do not wish to bid.

FAX QUOTE TO: 614-275-1354 OR EMAIL TO: maria.kerestly@dot.state.oh.us

*Authorized
By:* _____

(PRINT NAME)

(TITLE)

(SIGNATURE)

(DATE)

